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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 01 of 04

Application Number 09/480,837  
Filing Date January 10, 2000  
First Named Inventor Stephan GEHRING  
Art Unit 2616  
Examiner Name Chirag G. Shah  
Attorney Docket Number 00041

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,425,549	01-1984	Schwartz et al.	
		US- 4,500,887	02-1985	Nester	
		US- 4,594,706	06-1986	Kobayashi	
		US- 4,700,019	10-13-1987	Kerschner et al.	
		US- 4,843,403	06-1989	Lalezari et al.	
		US- 4,853,704	08-1989	Diaz et al.	
		US- 4,855,749	08-1989	DeFonzo	
		US- 4,905,234	02-27-1990	CHILDRESS ET AL.	
		US- 4,978,965	12-1990	Mohuchy	
		US- 5,081,466	01-1992	Bitter, Jr.	
		US- 5,142,255	08-1992	Chang et al.	
		US- 5,243,653	09-1993	Malek et al.	
		US- 5,264,860	11-1993	Quan	
		US- 5,280,498	01-18-1994	TYPES ET AL.	
		US- 5,295,140	03-15-1994	CRISLER ET AL.	
		US- 5,297,144	03-22-1994	GILBERT ET AL.	
		US- 5,469,174	11-1995	McCorkle	
		US- 5,509,049	04-16-1996	PETERSON	
		US- 5,515,366	05-07-1996	Chieu	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>2</sup> Number* Kind Code <sup>3</sup> (if known)				
		EP 0 288 904	04-21-1988	Labadz		
		EP 0 475 682	09-05-1991	Kammerman		
		EP 0 750 284	12-27-1996	Gitlin		
		EP 0 752 764	06-18-1996	Olsen		
		WO 95/35002	12-21-1995	Blakenely		
		WO 98/00993	1/8/1998	Isberg		

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Sheet 12

of 14

Application Number	09/480,837
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First Named Inventor	Stephan GEHRING
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	US-	5,550,848	08-27-1996	DOSHI ET AL.	
	US-	5,572,546	11-05-1996	SERFATY ET AL.	
	US-	5,638,371	06-1997	Raychaudhuri et al.	
	US-	5,683,432	11-1997	Goedeke et al.	
	US-	5,684,791	11-1997	Raychaudhuri et al.	
	US-	5,699,532	12-16-1997	BARRETT ET AL.	
	US-	5,729,541	03-17-1998	HAMALAINEN ET AL.	
	US-	5,734,646	03-31-1998	I ET AL.	
	US-	5,740,542	04-14-1998	LEEPER ET AL.	
	US-	5,748,153	05-1998	McKinzie, III et al.	
	US-	5,787,080	07-28-1998	Hulyalkar et al.	
	US-	5,878,277	03-1999	OHTA	
	US-	5,889,771	03-30-1999	ALTVATER	
	US-	5,905,442	05-18-1999	MOSEBROOK ET AL.	
	US-	5,907,544	05-25-1999	Rypinski	
	US-	5,922,047	07-13-1999	Newlin et al.	
	US-	5,956,487	09-21-1999	Venkatraman et al.	
	US-	5,966,376	10-12-1999	Rakib et al.	

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		WO 98/24250	06-04-1998	Turina		
		WO 98/27667	06-25-1998	Satyanarayana		
		WO 98/27747	06-25-1998	Hulyalkar		
		WO 98/33347	07-30-1998	Pentikainen		
		GB 2281662	03-08-1995	Raquenet et al.		
		GB 2320162	06-10-1998	Philip		

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		US-5,987,590	11-16-1999	WING SO	
		US-6,003,070	12-14-1999	FRANTZ	
		US-6,016,311	01-18-2000	GILBERT ET AL.	
		US-6,016,322	01-18-2000	GOLDMAN	
		US-6,075,826	06-2000	Sayegh	
		US-6,449,291	09-2002	Burns et al.	
		US-6,700,939	12-11-1998	McCorkle	
		US-6,711,177	03-23-2004	Young	
		US-6,778,557	08-2004	Yuki et al.	
		US-6,970,448	11-29-2005	Sparrell et al.	
		US-7,023,833	04-2006	Aiello et al.	
		US-7,031,294	04-2006	Aiello et al.	
		US-7,088,795	08-2006	Aiello et al.	
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Art Unit	2616
Examiner Name	Chirag G. Shah
Attorney Docket Number	00041

Sheet 04 of 04

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KHUN-JUSH et al., HIPERLAN type 2 for broadband wireless communication, Ericsson Review No. 2, 2000, pgs. 108-119.	
		Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications, LAN MAN Standards Committee of IEEE Computer Society, IEEE Std. 802.11, June 26, 1997.	
		Broadband Radio Access Networks (BRAN) HIPERLAN Type 2, ETSITR 101 683 V1.1.1., European Telecommunications Standards Institute, France, 2000.	
		Broadband Radio Access Networks (BRAN) HIPERLAN Type 2, Physical (PHY) Layer, ETSITR 101 475 V1.1.1., European Telecommunications Standards Institute, France, 2000.	
		Federal Communications Commission Regulations § 15.247 "Operation with the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz."	
		KARDACH, "Bluetooth Architecture Review, PowerPoint, 3/18/1999.	
		KARDACH, "Bluetooth Architecture Review, Intel Technology Journal, Q2, 2000.	

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	US-	4,905,234	02-27-1990	CHILDRESS ET AL.	
	US-	4,978,965	12-1990	Mohuchy	
	US-	5,081,466	01-1992	Bitter, Jr.	
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		US- 6,778,557	08-2004	Yuki et al.	
		US- 6,970,448	11-29-2005	Sparrell et al.	
		US- 7,023,833	04-2006	Aiello et al.	
		US- 7,031,294	04-2006	Aiello et al.	
		US- 7,088,795	08-2006	Aiello et al.	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	1 <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			

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STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	09/480,837
Filing Date	January 10, 2000
First Named Inventor	Stephan GEHRING
Art Unit	2616
Examiner Name	Chirag G. Shah
Attorney Docket Number	00041

Sheet 04

of

04

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KHUN-JUSH et al., HIPERLAN type 2 for broadband wireless communication, Ericsson Review No. 2, 2000, pgs. 108-119.	
		Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications, LAN MAN Standards Committee of IEEE Computer Society, IEEE Std. 802.11, June 26, 1997.	
		Broadband Radio Access Networks (BRAN) HIPERLAN Type 2, ETSITR 101 683 V1.1.1., European Telecommunications Standards Institute, France, 2000.	
		Broadband Radio Access Networks (BRAN) HIPERLAN Type 2, Physical (PHY) Layer, ETSITR 101 475 V1.1.1., European Telecommunications Standards Institute, France, 2000.	
		Federal Communications Commission Regulations § 15.247 "Operation with the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz."	
		KARDACH, "Bluetooth Architecture Review, PowerPoint, 3/18/1999.	
		KARDACH, "Bluetooth Architecture Review, Intel Technology Journal, Q2, 2000.	

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